

FIG 1A

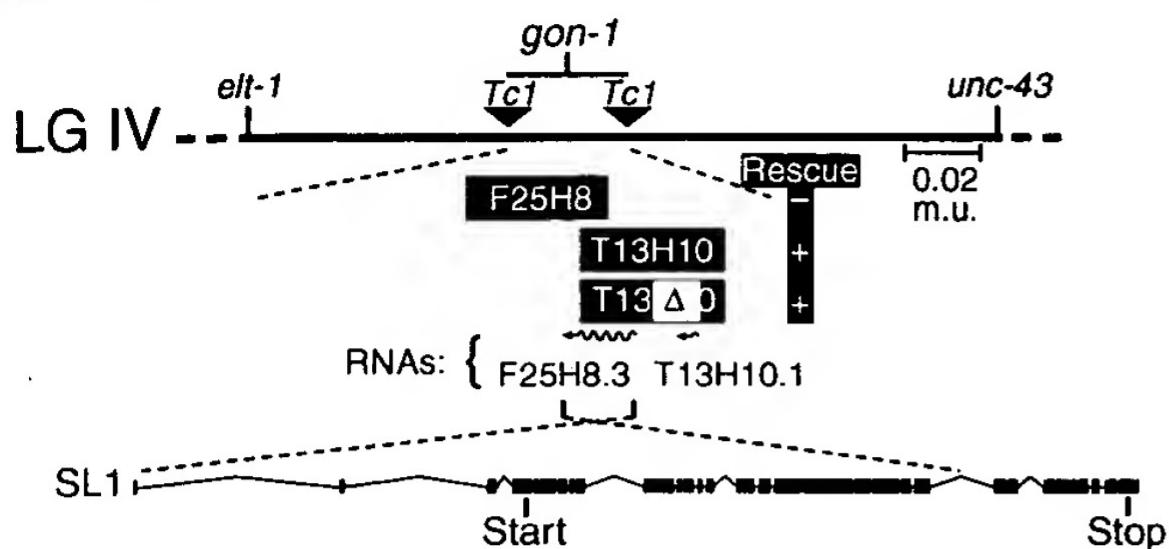


FIG 1B Domains:

MP TSPt1 TSPt1-like

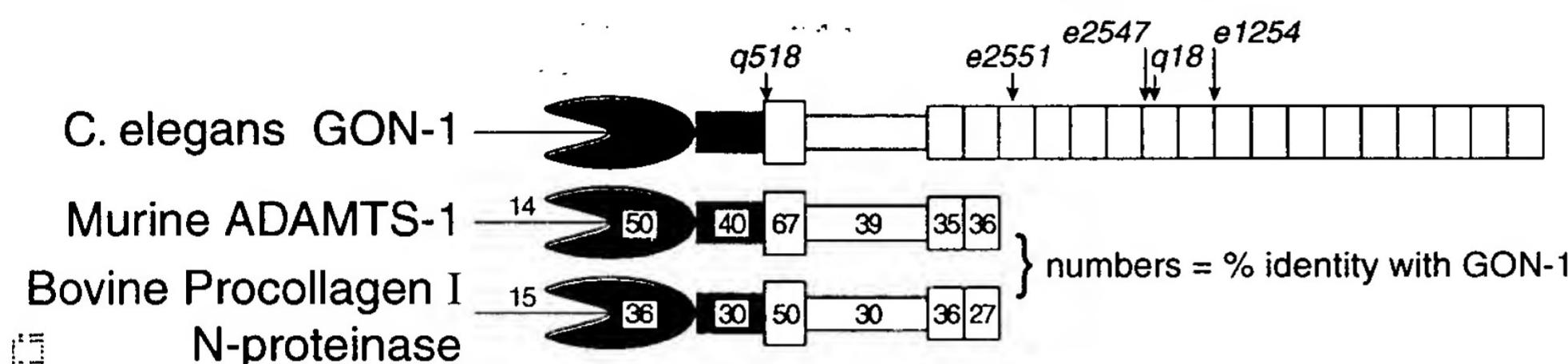
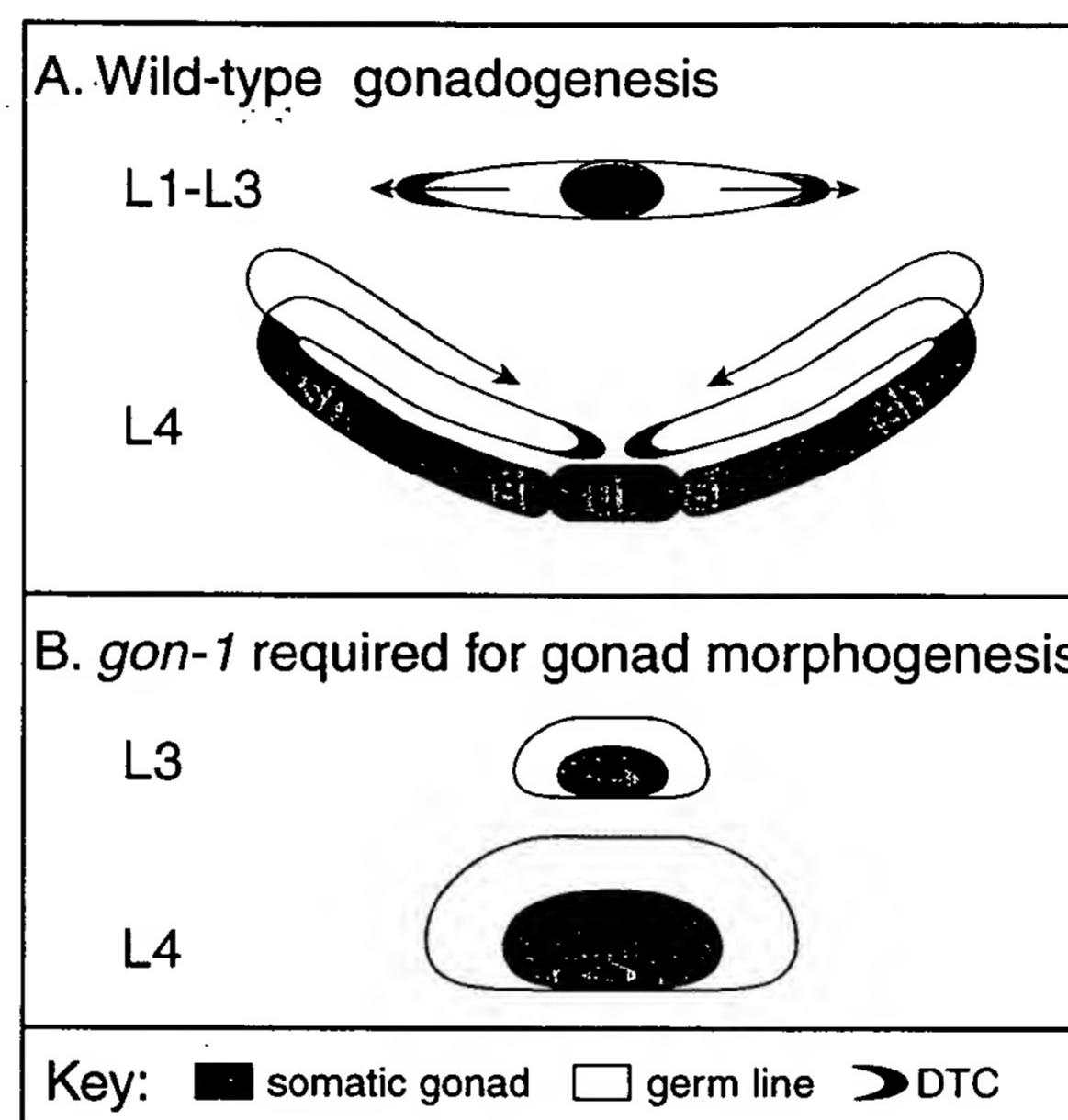


FIG 1C signal sequence

GON-1	MRSIGGSFHLQPVVAALILVVCLVYALQSGSGTISEFSSDVLFSRAKYSVPVHSRWRQDAGIHVIDSHHIVRRDSYGRRGKR....DVTSTDRLQGVARDCGHACHLRLRSDDAVY	119
ADAMTS-1	MGDVQRAARSRGSLSAHMILLLASITMLLCARGA.....HGRPTEEDEELVL.....PSLERAPGH....DSTTT..RLRLDAF....GQQLHLKLPDSGF.	83
P1NP	MOPPAGAAAGRL.LCPALLLLLLPLPADARLAAAAADPPGGPQGHGAERILAVPVRTDAQGLVSHVSAATAPAGVRTRRAAPAQIPGLSGGSEEDPGGRLFYNVTVFGRDLHLRLRP.NARL	122
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GON-1	IVHLHRWNQIPDSHNKSVPHFNSNFAPMVLYLDSEEVRGGMSRTDPDC.IYRAHVKGHQHSIVNLCDSEDGLYGMALPSGIHTVEPIISGNGETHDGASRHRQHLVRKFDPMHFKSFH	242
ADAMTS-1	LAPGFTLQTVGRCSPGSEAQHLDPTGDLAHCFYSGTVNGDGSAA.ALSLCEGVRAFYLQGEFFIQPAPGVATERLAPAVPEESSARPQFHILRRRRGSGGAKCG.VMDDETLPDSRPE	205
P1NP	VAPGATVEWQGESGATRVEPL....LGTCLYVGDVAGLAESSSVALSNCAGLAGLIRMEEEFFIEPL....EKGLAAKEAQGRVHVYHRPTTSRPPPLGGPQAL....DTGISADSLDS	232
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	furin	
GON-1	NSTS VNETETT VATW QDQ WED VIER KARS RRAA NSWD HY VEV L VVAD TK MY EY HGRS. LED YVLT LF ST VASI YR HOS L RAS I N VVVV K L I V L K T E N A G P R I . T O N A O Q T L Q D F C R W Q Q Y Y N D P	364
ADAMTS-1	SQNTRN QWP VRD PTP QD AGK P SGPS IRKK R FVSS . PR YV E T M L V A D Q S M A D F H G S G . L K H Y L L T L F S V A A R F Y K H P S I R N S I S L V V V K I L V I Y E E Q K G P E V . T S N A A L T L R N F C S W Q K Q H N S P	326
P1NP	L S R A L G V L E E R V N S S R R R M R R H A A D D Y N I E V L L G V D D S V V Q F H G T E H V Q K Y L L T L M N I V N E I Y H D E S L G A H I N V V L V R I I L L S Y G K S M S L I E I G N P S Q S L E N V C R W A Y L Q Q K P	346
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GON-1	DDSSVQHH DVA ILL TRK D I C R S Q G K C D T L G L A E L G T M C D M Q K S C A I I E D N G L S A A F T I A H E . G H V F S I P H D D E R K C S T Y M P V N K N F H I M A P T L E Y N T H P W S W S P C S A G M L E R F L E N N R G Q T Q C	488
ADAMTS-1	S D R D P E H Y D T A I L F T R O D L C G S H . T C D T L G M A D V G T V C D P S R S C S V I E D D G L Q A A F T T A H E . G H V F N M P H D D A K H C A S L N G V S G D S . H L M A S M L S S L D H S Q P W S P C S A Y M V T S F L D N G H G . . E C	446
P1NP	D T D H D E Y H D H A I F L T R O D F . . . G P S G M Q G Y A P V T G M C H P V R S C T I N H E D G F S S A F V V A H E I G H V L G M E H D G Q . . . G N R C G D E V R L G S I M A P L V Q A A F H R F H W S R C S Q Q E L S R Y L H S . . . Y D C	459
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GON-1	L F D Q P V E R R Y Y E D V F V R D E P G K K Y D A H Q Q C K F V F G P A S E L C P . Y M P . . T C R R L W C A T F Y G S O M G C R T Q H M P W A D G T P C D E S R S M F C H H G A C V R L A . . P E S L T K I D G Q W G D W R S W G E C S R T C G G G	607
ADAMTS-1	L M D K P Q N . . . P I K L P S D L P G T L Y D A N R Q C Q F T F G E E S K H C P D A A S . . T C T T L W C T G T S G G L L V C Q T K H F P W A D G T S C G E G K . . W C V S G K C V N K T D M K H F A T P V H G S W G P W G P W G D C S R T C G G G	562
P1NP	L R D D P F T H D W P A . . . L P Q L P G L H Y S M N E Q C R F D F G L G Y M M C T A F R T F D P C K Q L W C S H P D N P Y F . C K T K K G P P L D G T M C A P G K H . . C F K G H C I W L T P . . D I L K R D G N W G A W S P F G S C S R T C G T G	574
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GON-1	W Q K G L R D C D S P K P R N G G K Y C V G Q R E R Y R S C N T Q E C P W D T . Q P Y R E V Q C S E F N N K D I G I Q G V A S T N T H W V P K Y A N V A P N E R C K L Y C R L S G S A A F Y L L R D K V V D G T P C D . R N G D D I C V A G A C M P A G	729
ADAMTS-1	W Q Y T M R E C D N P V P K N G G K Y C E G K R V R Y R S C N I E D C P D N N G K T F R E E Q C E A H N E F S K A S F G N E P T . V E W T P K Y A G V S P K D R C K L T C E A K G I G Y F F V L Q P K V V D G T P C S . P D S T S V C V Q G Q C V K A G	684
P1NP	W K F R T R O C D N P H P A N G G R T C S G L A Y D F Q L C N S Q D C P . D A L A D F R E E Q C R Q W D L Y . . . F E H G D A Q H H W L P . H E H R D A K E R C H L Y C E S K E T G E V V S M K R M V H D G T R C S Y K D A F S L C V R G D C R K V G	692
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GON-1	C D H Q L H S T L R R D K C G V C G G D D S S C K V V K G T F N . E Q G T F G Y N E V M K I P A G S A N I D I R Q K G Y N N M K E D D N Y L S L R A A N G E F L L N G H F Q V S L A R Q Q I A F Q D T V L E Y S G S D A I I E R I N G T G P I R S D I Y	852
ADAMTS-1	C D R I I D S K K F D K C G V C G G N G S T C K K M S G I V T . S T R P . G Y H D I V T I P A G A T N I E V K H R N Q R G S R N N G S F L A I R A A D G T Y I L N G N F T L S T L E Q D L T Y K G T V L R Y S G S S A A L E R I R S F S P L K E P L T	806
P1NP	C D G V I G S S K Q E D K C G V C G G D N S H C K V V K G T F S R S P K K L G Y I K M F E I P A G A R H L L I Q E A D . . . T T S H H L A V K N L E T G K F I L N E E N D V D P N S K T F I A M G V E W E Y R D E D G R . E T L O T M G P L H G T I T	811
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GON-1	V H V L S V G . S H P P D I S Y E Y M T A A V P N A V I R P I S S . . . A L . Y L W R V T D T W T E C D R A C . R G Q Q S O K L M C L D M S T H R Q S H D R N C Q N V L K P K O A T R M . C N I . D C S . T R W I T E D V S S C S A K C G S . G Q K R Q	966
ADAMTS-1	I Q V L M V G H A L R P K I K F T Y F M K K K T E S F . . . N A I . . . P T F S E W . V I E E W G E C S K T C G S G W Q R R V V Q C R D I N G H P A S . . . E C A K E V K P A . S T R P . C A D L P C . . P H W Q V G D W S P C S K T C G K . G Y K K R	915
P1NP	V L V I P E G D A . R I S L T Y K Y M I H E D S L N V D D N N V L E D D S V G Y E W . A L K K W S P C S K P C G G G S Q F T K Y G C R R R L D H K M V H R G F C D S V S K P K . A I R R T C N P O E C S Q P V W T G E W E P C S R S C G R T G M Q V R	932
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GON-1	R V S C V K M E G D R Q T . P A S E H L C D R N S K P S D . I A S C Y I . D C plus 1148 aa	
ADAMTS-1	T L K C V S H D G G . . . V L S N E S C D P L K K P K H Y I D F C T L T Q C plus 1 aa	
P1NP	S V R C V Q P L H N N T T R S V H T K H C N . D A R P E G R . R A C N R E L C plus 236 aa	

**FIG 2A****FIG 2B**